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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/659,757	09/10/2003	Swarup Acharya	18-18-18	3481
7.	590 02/09/2005		EXAMINER	
Ryan, Mason & Lewis, LLP 90 Forest Avenue			TANG, KENNETH	
Locust Valley,			ART UNIT	PAPER NUMBER
			2127	· · · · · · · · · · · · · · · · · · ·
			DATE MAILED: 02/09/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	Dela
		10/659,757	ACHARYA ET AL.	
	Office Action Summary	Examiner	Art Unit	
	-	Kenneth Tang	2127	
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the	correspondence addres	ss
THE - Exte after - If the - If NO - Failt Any	MAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. In period for reply specified above is less than thirty (30) days, a reply operiod for reply is specified above, the maximum statutory period ware to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing led patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be of within the statutory minimum of thirty (30) do will apply and will expire SIX (6) MONTHS fro cause the application to become ABANDON	timely filed ays will be considered timely. m the mailing date of this commu IED (35 U.S.C. § 133).	nication.
Status				
1)⊠ 2a)□ 3)□	Responsive to communication(s) filed on <u>30 Sec</u> This action is FINAL . 2b) This Since this application is in condition for allower closed in accordance with the practice under Experimental Experimental Section 1.	action is non-final. nce except for formal matters, p		erits is
Dienneit	ion of Claims			
5)□ 6)⊠ 7)⊠	Claim(s) <u>1-26</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) <u>1-4,18,25 and 26</u> is/are rejected. Claim(s) <u>5-17 and 19-24</u> is/are objected to. Claim(s) are subject to restriction and/or	vn from consideration.	·	
Applicat	ion Papers			
10)	The specification is objected to by the Examine The drawing(s) filed on is/are: a) accomplicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examine	epted or b) objected to by the drawing(s) be held in abeyance. S ion is required if the drawing(s) is c	ee 37 CFR 1.85(a). objected to. See 37 CFR 1.	
Priority (under 35 U.S.C. § 119			
12)□ a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau See the attached detailed Office action for a list	s have been received. s have been received in Applica rity documents have been receiv u (PCT Rule 17.2(a)).	ntion No ved in this National Staç	ge
Attachmen	ut(s) ce of References Cited (PTO-892)	4) ☐ Interview Summa	ry (PTO-413)	
2) Notice 3) Infor	ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) er No(s)/Mail Date	Paper No(s)/Mail I		2)

DETAILED ACTION

1. This non-final action is in response to the Request for Consideration on 9/30/04.

Applicant's arguments have been fully considered but are now moot in view of the new grounds of rejections.

2. Claims 1-26 are presented for examination.

Double Patenting

3. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

4. Claim 1 is rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 3 and 5 of U.S. Patent No. 6,502,062 in view of Bigo et al. (hereinafter Bigo) (US 5,261,099).

Although the conflicting claims are not identical, they are not patentably distinct from each other because both computer systems comprise substantially the same elements, such as a method for scheduling responses in a point-to-point communication system having a plurality of local channels, receiving a plurality of job requests at a central server for scheduling, and determining an adaptive schedule. The differences between the U.S. Patent No. 6,502,062 and

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this application is wherein if the first job request is interrupted, an unserviced portion of data is returned to the central server, and the unserviced portion is subsequently serviced so as to service a second job request in accordance with an updated schedule. However, Bigo teaches an adaptive scheduling mechanism of tasks to be performed in a communication system (see Abstract and col. 15, lines 63-65), wherein the system is interrupted during a program segment (breakpoint), returned to the central scheduler, and execution is resumed/continued on by another program task at the breakpoint (unserviced portion is portion remaining when breaking point occurs, wherein after breaking point, the unserviced portion is resumed/continued or subsequently serviced from a second channel) (col. 1, lines 65-68 through col. 2, lines 1-2, col. 4, lines 29-48). It would have been obvious to one of ordinary skill in the art at the time the invention was made to include the feature of resuming execution on a different thread/task when a prior thread is interrupted to the existing system in order to benefit from the benefits and advantages of multi-threading and parallelism, such as increasing the speed and efficiency of thread processing.

5. As to claims 2-26, they are rejected under the judicially created doctrine of obvious type double patenting for the same reasons as stated in the rejection of claim 1 above.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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- 6. Claims 1-4, 18, and 25-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lin et al. (hereinafter Lin) in view of Bigo et al. (hereinafter Bigo) (US 5,261,099).
- 7. As to claim 1, Lin teaches a method for scheduling responses in a point-to-point communication system having k channels, the method comprising the steps of receiving at a central server a plurality of job requests (col. 2, lines 63-64 and Fig. 5, items 68, 74, and 10) with a dynamic schedule for the channels (col. 2, lines 58-63). Lin fails to explicitly teach, data responsive to said job requests, wherein the servicing of a first job request via a first channel is interrupted, an unserviced portion of said data is returned from a local channel server to said central server, and said unserviced portion is subsequently serviced via a second channel so as to service a second job request via said first channel in accordance with an updated schedule. However, Bigo teaches an adaptive scheduling mechanism of tasks to be performed in a communication system (see Abstract and col. 15, lines 63-65), wherein the system is interrupted during a program segment (breakpoint), returned to the central scheduler, and execution is resumed/continued on by another program task at the breakpoint (col. 1, lines 65-68 through col. 2, lines 1-2, col. 4, lines 29-48). It would have been obvious to one of ordinary skill in the art at the time the invention was made to include the feature of resuming execution on a different thread/task when a prior thread is interrupted to the existing system in order to benefit from the benefits and advantages of multi-threading and parallelism, such as increasing the speed and efficiency of thread processing.

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8. As to claim 2, Lin teaches the step of servicing said job requests via a plurality of local channel servers in accordance with said adaptive schedule (col. 2, lines 58-63).

- 9. As to claim 3, Bigo teaches updating the schedule when requested by the central server (col. 13, lines 22-26, col. 14, lines 34-40, col. 15, lines 63-65).
- 10. As to claim 4, it is rejected for the same reasons as stated in the rejection of claim 3. In addition, Bigo teaches using interrupts (col. 1, lines 28-60).
- 11. As to claim 18, Bigo teaches wherein the communication system is an on-line system (col. 1, line 62).
- 12. As to claim 25, it is rejected for the same reasons as stated in the rejection of claim 1.
- 13. As to claim 26, it is rejected for the same reasons as stated in the rejection of claim 1:

Allowable Subject Matter

14. Claims 5-17 and 19-24 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

15. Applicant argues on page 2 of the Remarks that the proposed combination of Bigo does not teach when a first job request on a first channel is interrupted, an unserviced portion of the data is subsequently serviced via a second channel.

In response, the Examiner respectfully disagrees. Bigo teaches that the unserviced portion is the portion remaining when breaking point occurs, wherein after breaking point, the unserviced portion is resumed/continued or subsequently serviced from a second channel (col. 1, lines 65-68 through col. 2, lines 1-2, col. 4, lines 29-48).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kenneth Tang whose telephone number is (703) 305-5334. The examiner can normally be reached on 8:30AM - 7:00PM, Monday through Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Meng-Ai An can be reached on (703) 305-9678. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kt 1/25/05

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